

Nasco **Life/form**®

**Advanced “Airway Larry”
Airway Management Trainer
Head with Stand
LF03685U
Instruction Manual**



ISO 9001 and
ISO 13485

Nasco Plastics
ISO 9001 and ISO 13485

Products are manufactured using a quality management system
certified as being in conformity with ISO 9001 and ISO 13485.

Life/form®



***Life/form*® Products by Nasco**

Warranty

About the Simulator

The **Life/form**® Advanced Airway Management Trainer Head has the added features of laryngospasm and tongue swelling, this trainer will provide students with an easy-to-use model that will build their confidence and expertise while still providing a realistic intubation experience.

Landmarks include nostrils, teeth, tongue, oral and nasal pharynx, larynx, cricoid ring, epiglottis, arytenoid, false and true vocal cords, trachea, esophagus, “Airway Larry” lung set, and stomach.

Nasco’s Advanced Airway Management Trainer Head allows you to practice oral, digital, and nasal intubation. E.T., E.O.A., PTL®, LMA, and Combitube® insertion can all be practiced as well (please see “Using the Combitube®”). Suction techniques and proper cuff inflation can also be performed and evaluated.

In addition, this model also allows students to apply cricoid pressure during the intubation procedure (Sellick’s Maneuver). By locating the larynx and depressing the cricoid ring, the student may realistically lower the vocal cords farther into the field of view. This also effectively closes off the esophagus of the simulator.

The Airway Management Trainer head can be detached from the training stand and placed on **CPARLENE**® or modular type brand manikins, creating a valuable mega-code component. With proper care, your **Life/form**® Airway Management Trainer will provide years of valuable service. Please review the instructions carefully for setup, cleanup, and maintenance procedures.

List of Components

- Advanced “Airway Larry” Airway Management Head with Stand
- 8-oz. Pump Spray Lubricant
- 20 cc syringe (2)
- Left and right simulated lungs
- Simulated stomach
- 3 Red Caps

Setup

The Advanced Airway Management Trainer is ready to use upon delivery. Simply remove it from the carton, and unwrap the packaging material.

Figure 1



Figure 2



Lubrication

Before using the Advanced Airway Management Trainer Head, lubricate both the simulator and supplies being used with the pump spray lubricant provided. **(See figures 1 & 2.)**



Figure 3



Figure 4



Figure 5

Please Note: Nasco recommends the use of the provided lubricant or a similar vegetable-based lubricant for the “Airway Larry” Airway Management Trainer. The use of a silicone-based lubricant may cause damage to the simulator, thus voiding Nasco’s warranty on the trainer.

Using the Combitube®

Thoroughly read and follow the instructions that come with the Combitube®. The trainer will accept either a full-size or a small adult tube. As with a live patient, it may be necessary to back the tube out slightly if ventilation cannot be established.

Note: Depending on tube placement, the large cuff may not accept the recommended 100 ml of air. If so, simply inflate the cuff to its maximum volume (when the plunger stops). While holding the plunger down, detach the syringe from the blue pilot balloon, and proceed.

Removing the Head from the Stand

To remove the head from the stand, the lungs and stomach bag must first be removed. Do this by sliding each lung out from the connector fitting and removing the clamp that holds the stomach in place. **(See figure 3.)**

Next, turn the head slightly to the side to align the keyways with the slots, and pull the head from the stand. **(See figure 4.)**

To remount the head on the stand, simply reverse this procedure.

Attaching the Head to the Manikin

As explained earlier, Nasco’s Advanced Airway Management Trainer has the ability to be attached to both **CPARLENE®** and modular type brand manikins. To attach the Airway Management Trainer Head to the above manikins, you must first remove the lung and stomach bags if they are attached to the trainer.

Next, turn the head face down and begin inserting it at the shoulders. Tip the head upward slightly until the two keyways on the back of the neck slide under the ring and into the top of the torso. **(See figure 5.)**

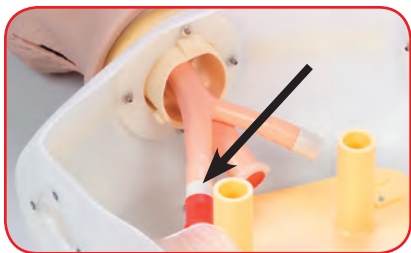


Figure 6

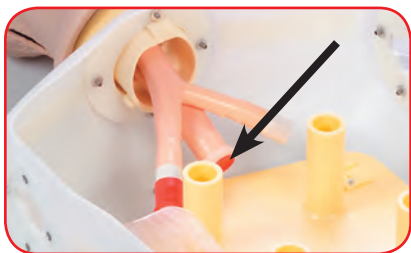


Figure 7



Figure 8



Figure 9

Now match the single keyway on the neck front up to the slot on the backside of the torso, and push the head down until it snaps into place. Rotate the head back around so that it is facing up and in the correct position.

Connecting the Airways

Once the head is in place, connect the **CPARLENE**[®] lung bag to the right bronchus by sliding the cap plug over the white adapter in the bronchus. **(See figure 6.)**

Then use the provided red cap plugs to plug the esophagus and the left bronchus. **(See figure 7.)** This will ensure the system is sealed and operational.

Note: Nasco's Advanced Airway Management Trainer will fit on all models of **CPARLENE**[®] and modular type manikins.

Laryngospasm

Pull back the plunger of a 20 cc syringe and attach it to the red stopcock. **(See figure 8.)** Depress the plunger to force 1-5 cc of air into the system. Close the tubing port at the stopcock to maintain the pressure within the larynx. The syringe may be removed at this point.

Tongue Swelling

Pull back the plunger of a 20 cc syringe and attach it to the yellow stopcock. **(See figure 9.)** Depress the plunger to force approximately 10 cc of air into the system. Close the tubing port at the stopcock to maintain the pressure. The syringe may be removed at this point.

Caution: Do not overinflate! Excessive pressure may rupture the system. Stop inflation when resistance is felt or the larynx is observed to close. Always release the pressure when finished training by opening the tubing port at the stopcock.

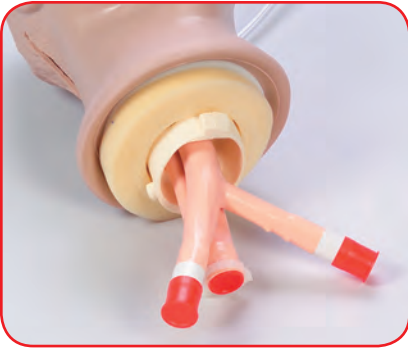


Figure 10

Cleaning and Maintenance

To clean the Airway Management Trainer, you will first need to remove the head from the stand. Next, take the trainer to an area with a sink and open counter space. Using the three red caps supplied, plug off the esophagus and the bronchi. **(See figure 10.)**

Stabilize the head on the counter face-up (towels work well for this), with the plugged tubes hanging over the sink. Carefully pour warm soapy water (a mild dish soap works best) into the mouth until the water level reaches halfway up the tongue. Now tilt the head back and bring the neck up 3" off the countertop.

Continue filling until the water level covers the tongue. At this point, take a small soft brush and gently scrub the inside of the mouth (a small toothbrush works well for this). Cotton swabs can be used to scrub inside the nostrils. When done, pull the plug from the esophagus and drain the water into the sink. Now pick the head up, hold it in a vertical position, and pull the plugs from the trachea to completely empty the system. **(See figure 11.)**



Figure 11

Rinsing the Airway

To rinse the airway, follow the same procedure using clean, warm tap water. Repeat this process until all the soap has been flushed from the system.

Disinfecting the Airway

To disinfect, repeat the standard cleaning procedure, but this time use a bleach solution instead of soapy water, as specified by the Centers for Disease Control. Fill the system with the solution until it reaches the corners of the mouth. Remember to start filling with the head flat, and finish with the neck slightly elevated to ensure that the solution completely fills all airway passages. Once completely filled with the bleach solution, allow the head to sit for at least 10 minutes. Drain as described earlier and repeat the rinsing process to flush out all of the bleach solution. Set the head aside and allow it to dry completely.

Cleaning the Face

Normal soil can be removed from the face of the trainer with mild, soapy water. Nasco Cleaner (LF09919U) will remove stubborn stains. Simply apply Nasco Cleaner to the soiled area and wipe clean with a soft cloth or paper towel.

Note: Do not use Nasco Cleaner around the mouth and nostrils, as the residue of the cleaner could be toxic.

Caution

Never place the trainer on any kind of printed paper or plastic. These materials will transfer indelible stains. Ballpoint pens will also make indelible stains. Do not use cosmetics.

Supplies/Replacement Parts for the Advanced “Airway Larry” Airway Management Trainer

- LF03605U** Replacement Lungs
- LF03606U** Replacement Stomach
- LF03644U** Pump Spray Lubricant
- LF09919U** Nasco Cleaner

Other Available *Life/form*® Simulators

- LF03616U** Child *CRiSis*™ Manikin
- LF03617U** Deluxe Child *CRiSis*™ Manikin with Arrhythmia Tutor
- LF03620U** PALS Update Kit
- LF03699U** “Airway Larry” Airway Management Trainer
- LF03713U** **CPARLENE**®
- LF03953U** *CRiSis*™ Manikin, Complete
- LF03955U** Deluxe *CRiSis*™ Manikin
- LF03956U** Deluxe “Plus” *CRiSis*™ Manikin
- LF03965U** Adult *CRiSis*™ Auscultation Manikin
- LF03966U** Adult *CRiSis*™ Auscultation Manikin with ECG Simulator



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